FIG.1
(PRIOR ART)

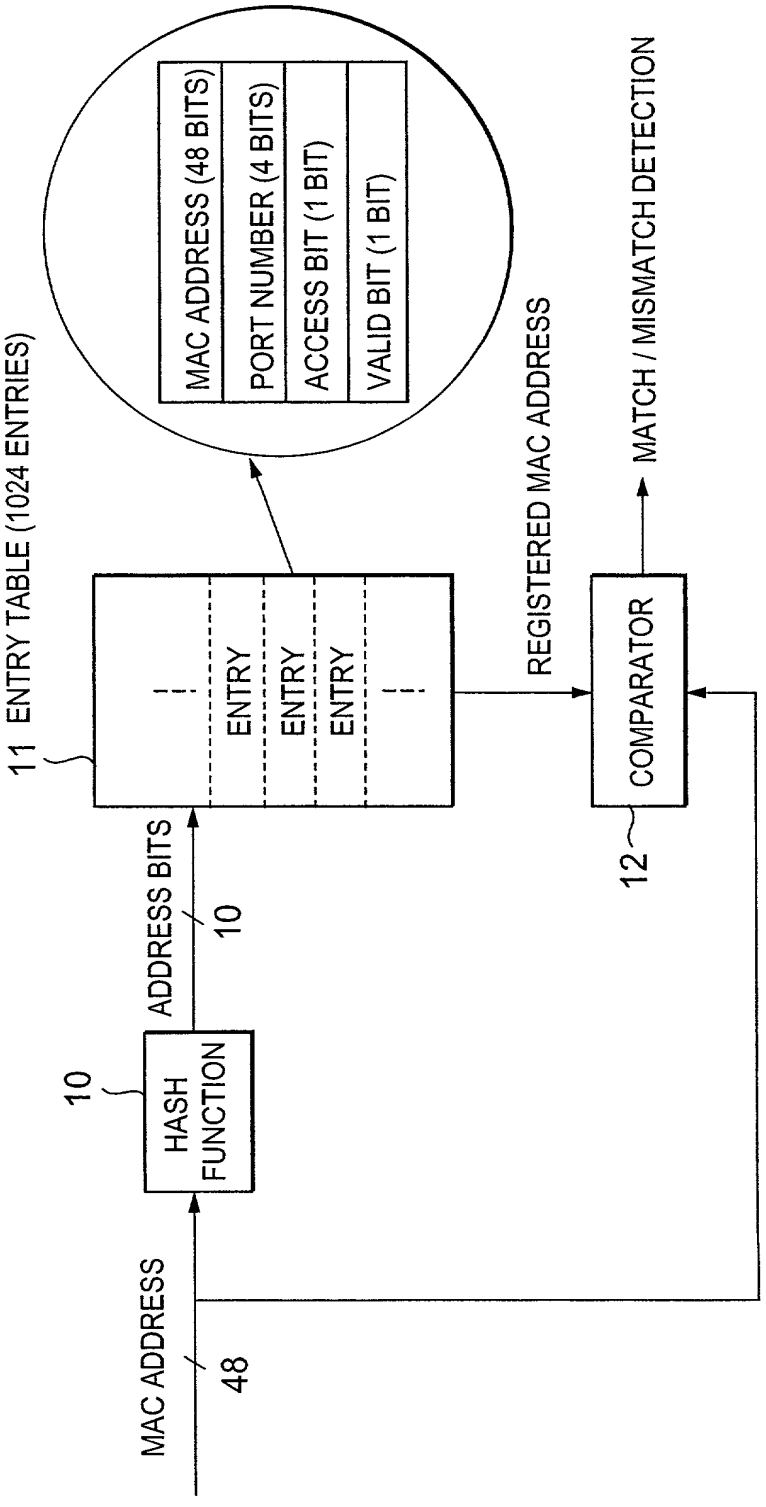


FIG.2

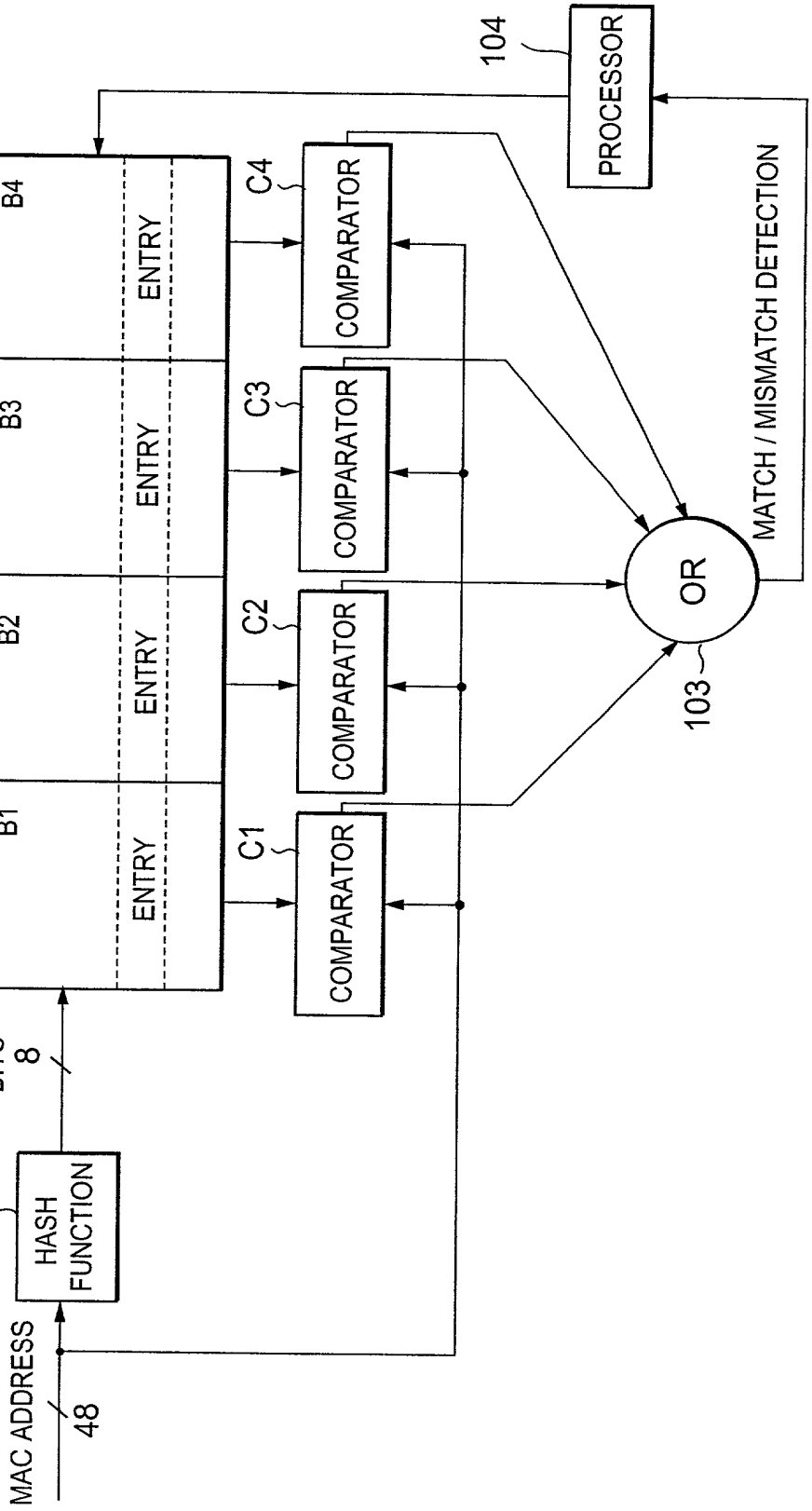
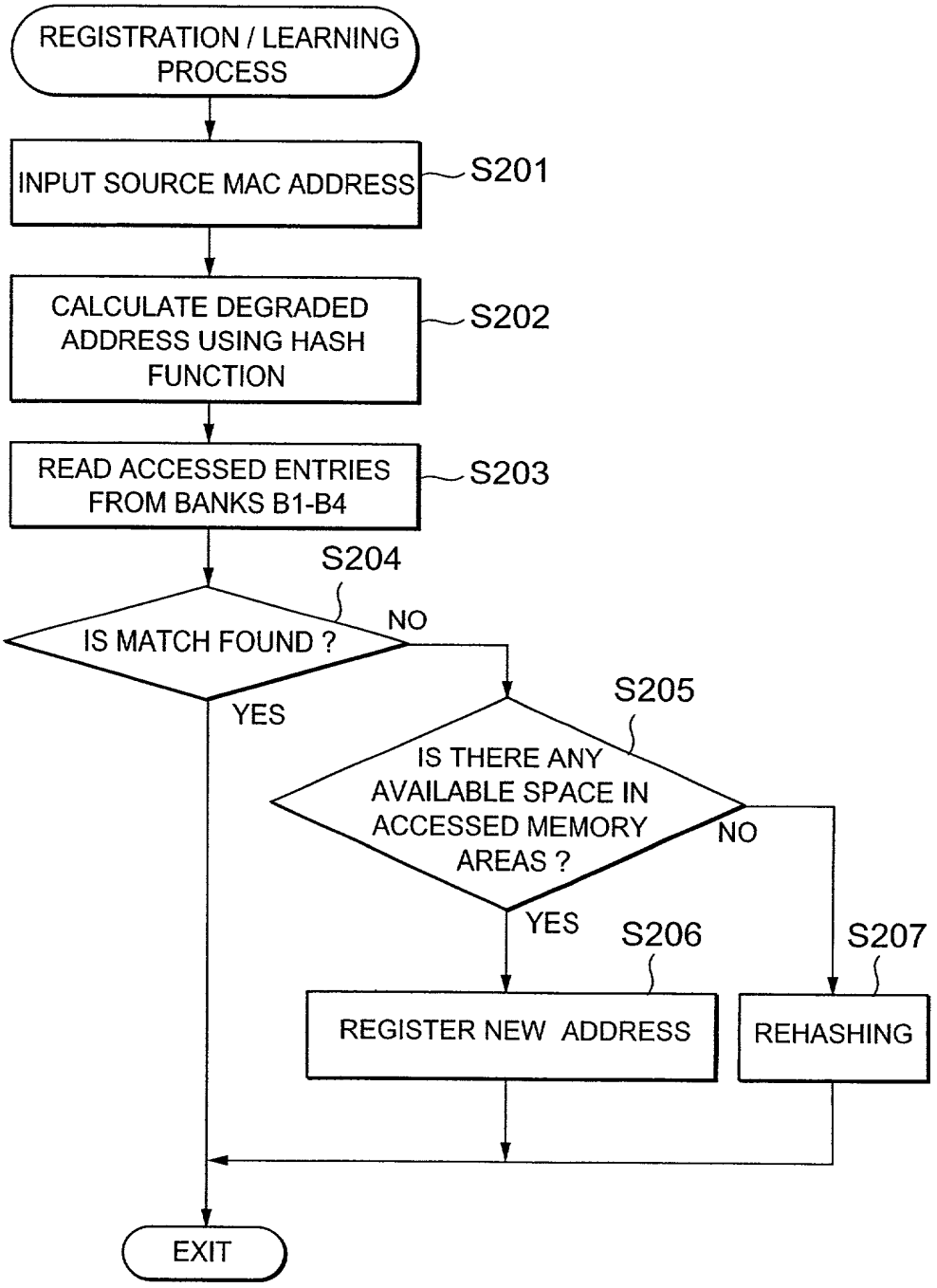
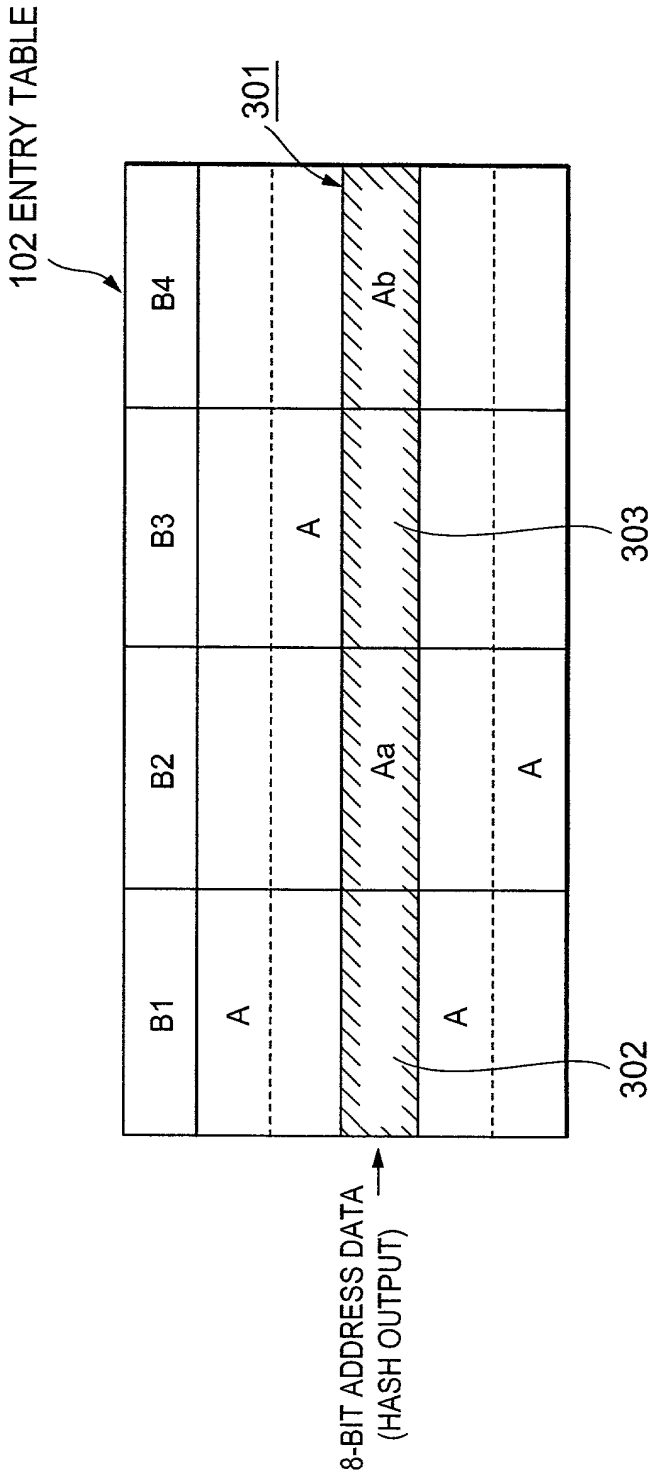

ENTRY TABLE (256ENTRIES × 4BANKS)
102
B1
B2
B3
B4
ENTRY
ENTRY
ENTRY
ENTRY
C1
C2
C3
C4
COMPARATOR
COMPARATOR
COMPARATOR
COMPARATOR
OR
103
MATCH / MISMATCH DETECTION
PROCESSOR
104
ADDRESS BITS
8
HASH FUNCTION
101
MAC ADDRESS
48

FIG.3



1-2005-2005-2005

FIG.4


102 ENTRY TABLE
301
B1
B2
B3
B4
A
Aa
A
Ab
A
A
303
302
8-BIT ADDRESS DATA
(HASH OUTPUT)